Product Specifications



SBH-2D6516

Andrew® SmartBeam® DualPol® Antenna, 1710-2180 MHz, 65° horizontal beamwidth, remote electrical tilt and pan

- SmartBeam® antenna—2° of freedom—electrical tilt and pan (boresight adjustment ±30°)
- Significantly reduces operational expense by remote control of tilt and horizontal beam direction
- Delays the need to add radios or sites by providing superior capacity efficiency of existing radios through dynamic load balancing
- Fully compatible with Andrew Teletilt® remote control system
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Fully supports PCS 1900, GSM 1800, UMTS 2100, and AWS spectrum

Electrical Specifications

1710-1880	1850-1990	1920-2180
17.1	17.4	17.5
67	65	63
7.6	7.0	6.6
0-10	0-10	0-10
18	18	18
32	32	32
30	30	30
1.5 14.0	1.5 14.0	1.5 14.0
-150	-150	-150
350	350	350
±45°	±45°	±45°
50 ohm	50 ohm	50 ohm
	17.1 67 7.6 0-10 18 32 30 1.5 14.0 -150 350 ±45°	17.1 17.4 67 65 7.6 7.0 0-10 0-10 18 18 32 32 30 30 1.5 14.0 1.5 14.0 -150 350 350 ±45° ±45°

General Specifications

Antenna Brand Andrew®
Antenna Type SmartBeam®
Band Single band

Brand DualPol® | SmartBeam® | Teletilt®

Operating Frequency Band 1710 – 2180 MHz
Performance Note Outdoor usage

Mechanical Specifications

Color Light gray Lightning Protection dc Ground

Radiator Material Low loss circuit board
Radome Material Fiberglass, UV resistant
RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, total 2

Wind Area, maximum 0.1 m 2 | 1.1 ft 2 Wind Loading, maximum 265.7 N @ 150 km/h

Product Specifications



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 $59.7 \; lbf \; @ \; 150 \; km/h$ Wind Speed, maximum $241 \; km/h \; \mid \; 150 \; mph$

Dimensions

 Length
 1518.0 mm | 59.8 in

 Outer Diameter
 203.0 mm | 8.0 in

 Net Weight
 12.0 kg | 26.5 lb

Remote Electrical Tilt (RET) Information

Input Voltage 10–30 Vdc
Power Consumption, idle state, maximum 2.0 W
Power Consumption, normal conditions, maximum 11.0 W

Protocol Andrew vendor specific

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

RET System Teletilt®

Packed Dimensions

 Depth
 393.0 mm | 15.5 in

 Length
 1782.0 mm | 70.2 in

 Width
 461.0 mm | 18.1 in

 Shipping Weight
 21.0 kg | 46.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006 ISO 9001:2008

Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





Included Products

600899F — Fixed Tilt Pipe Mounting Kit for 2.95 - 4.5 in (75 - 115 mm) OD round members. Kit contains top and bottom mount brackets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance